

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A multiple-layer structure for fabricating a flexible container or a tank liner or the like comprising:

a first layer consisting essentially of a polymer ~~of~~ selected from the group consisting of polyesters and polyamides;

a second layer attached to the first layer, the second layer consisting essentially of an ethylene and α -olefin copolymer having a density of less than about ~~0.900~~ 0.905 g/cc and having a DSC melting point of 100°C or lower; and

wherein the structure has a modulus of elasticity of less than about 60,000 psi.

Claim 2 (original): The structure of claim 1, wherein the polyester is a polyester ether.

Claim 3 (original): The structure of claim 2, wherein the polyester ether is obtained from reacting 1,4 cyclohexane dimethanol, 1,4 cyclohexane dicarboxylic acid and polytetramethylene glycol ether.

Claim 4 (original): The structure of claim 1, wherein the polyamide results from a ring-opening reaction of lactams having from 4-12 carbons.

Claim 5 (original): The structure of claim 1, wherein the polyamide is selected from the group consisting of nylon 6, nylon 10 and nylon 12.

Claim 6 (original): The structure of claim 1, wherein the polyamide is selected from the group consisting of aliphatic polyamides resulting from the condensation reaction of di-amines having a carbon number within a range of 2-13, aliphatic polyamides resulting from a condensation reaction of di-acids having a carbon number within a range of 2-13, polyamides resulting from the condensation reaction of dimer fatty acids, and amide containing copolymers.

Claim 7 (original): The structure of claim 1, wherein the polyamide is selected from the group consisting of nylon 66, nylon 6,10 and dimer fatty acid polyamides.

Claim 8 (original): The structure of claim 1, wherein the α -olefin has from 4 to 8 carbons.

Claim 9 (original): The structure of claim 8, wherein the ethylene and α -olefin copolymer is produced using a single-site catalyst.

Claim 10 (original): The structure of claim 8, further comprising a tie layer positioned between the first layer and the second layer.

Claim 11 (original): The structure of claim 10, wherein the tie layer is a polyolefin polymer or copolymer blended with a polyethylene copolymer grafted with a carboxylic acid anhydride or a carboxylic acid.

Claim 12 (original): The structure of claim 11, wherein the carboxylic acid anhydride is an unsaturated fused ring carboxylic acid anhydride.

Claim 13 (original): The structure of claim 12, wherein the carboxylic acid anhydride is a maleic anhydride.

Claim 14 (original): The structure of claim 10, wherein the first layer is from about 0.5 mils to about 4.0 mils thick, the second layer is from about 4.0 to about 10.0 thick, and the tie layer is from about 0.2 mils to about 1.2 mils thick.

Claim 15 (original): The structure of claim 14, wherein the structure is fabricated by a coextrusion process.

Claim 16 (original): The structure of claim 15, wherein the coextrusion process is a cast coextrusion process.

Claim 17 (original): The structure of claim 16, wherein the cast coextrusion process is carried out essentially free of slip agents.

Claim 18 (currently amended): A multiple-layer structure for fabricating a flexible container or a tank liner or the like comprising:

a first layer of a PCCE having a thickness from about 0.5 mils to about 4.0 mils;

a second layer attached to the first layer, the second layer consisting essentially of an ethylene and α -olefin copolymer having a density of less than about ~~0.900~~ 0.905 g/cc and a DSC melting point of 100°C or lower, the second layer having a thickness from about 4.0 mils to about 12.0 mils ; and

wherein the structure has a modulus of elasticity of less than about 60,000 psi.

Claim 19 (original): The structure of claim 18 wherein the α -olefin has from 4 to 8 carbons.

Claim 20 (original): The structure of claim 19, wherein the ethylene and α -olefin copolymer is produced using a single-site catalyst.

Claim 21 (original): The structure of claim 20, further comprising a tie layer positioned between the first layer and the second layer.

Claim 22 (original): The structure of claim 21, wherein the tie layer is a polyolefin polymer or copolymer blended with a polyethylene copolymer grafted with a carboxylic acid anhydride or a carboxylic acid.

Claim 23 (original): The structure of claim 22, wherein the carboxylic acid anhydride is an unsaturated fused ring carboxylic acid anhydride.

Claim 24 (original): The structure of claim 23, wherein the carboxylic acid anhydride is a maleic anhydride.

Claim 25 (original): The structure of claim 21, wherein the first layer is from about 0.5 mils to about 2.0 mils thick, the second layer is from about 6.0 mils to about 10.0 mils thick, and the tie layer is from about 0.2 mils to about 2.0 mils thick.

Claim 26 (original): The structure of claim 21, wherein the structure is fabricated by a coextrusion process.

Claim 27 (original): The structure of claim 26, wherein the coextrusion process is a cast coextrusion process.

Claim 28 (original): The structure of claim 27, wherein the cast coextrusion process is carried out essentially free of slip agents.

Claim 29 (currently amended): A multiple-layer structure for fabricating medical products comprising:

- a first layer of a PCCE having a thickness from about 0.5 mils to about 4.0 mils;
- a second layer of an ethylene and α -olefin copolymer having a density of less than about ~~0.900~~ 0.905 g/cc and a DSC melting point of 100°C or lower, the second layer having a thickness from about 4.0 mils to about 12.0 mils;
- a tie layer positioned between the first layer and the second layer and connected thereto, the tie layer having a thickness from about 0.5 mils to about 2.0 mils; and
- wherein the structure has a modulus of elasticity of less than about 60,000 psi.

Claim 30 (original): The structure of claim 29, wherein the α -olefin has from 4 to 8 carbons.

Claim 31 (original): The structure of claim 30, wherein the ethylene and α -olefin copolymer is produced using a single-site catalyst.

Claim 32 (original): The structure of claim 31, wherein the tie layer is a polyolefin polymer or copolymer blended with a polyethylene copolymer grafted with a carboxylic acid anhydride or a carboxylic acid.

Claim 33 (original): The structure of claim 32, wherein the carboxylic acid anhydride is an unsaturated fused ring carboxylic acid anhydride.

Claim 34 (original): The structure of claim 33, wherein the carboxylic acid anhydride is a maleic anhydride.

Claim 35 (original): The structure of claim 32, wherein the first layer is from about 0.5 mils to about 2.0 mils thick, the second layer is from about 6.0 mils to about 10.0 mils thick, and the tie layer is from about 0.2 mils to about 1.0 mil thick.

Claim 36 (original): The structure of claim 32, wherein the structure is fabricated by a coextrusion process.

Claim 37 (original): The structure of claim 36, wherein the coextrusion process is a cast coextrusion process.

Claim 38 (original): The structure of claim 37, wherein the cast coextrusion process is carried out essentially free of slip agents.

Claim 39 (currently amended): A method for fabricating a multilayered structure comprising the steps of:

providing a PCCE material;

providing a polymer consisting essentially of an ethylene and α -olefin copolymer having a density of less than about ~~0.900~~ 0.905 g/cc and a DSC melting point of 100°C or lower;

providing a tie material;

coextruding the PCCE material, the ethylene and α -olefin copolymer and the tie layer to define a multilayered structure having a first layer of PCCE, a second layer of ethylene and α -olefin copolymer and a tie layer attaching the first layer to the second layer ; and

wherein the step of coextruding is carried essentially free of slip agents.

Claim 40 (original): The method of claim 39, wherein the α -olefin has from 4 to 8 carbons.

Claim 41 (original): The method of claim 40, wherein the ethylene and α -olefin copolymer is produced using a single-site catalyst.

Claim 42 (original): The method of claim 41, wherein the tie material is a polyolefin polymer or copolymer blended with a polyethylene copolymer grafted with a carboxylic acid anhydride or a carboxylic acid.

Claim 43 (original): The method of claim 42, wherein the carboxylic acid anhydride is an unsaturated fused ring carboxylic acid anhydride.

Claim 44 (original): The method of claim 43, wherein the carboxylic acid anhydride is a maleic anhydride.

Claim 45 (original): The method of claim 42, wherein the first layer is from about 0.5 mils to about 4.0 mils thick, the second layer is from about 4.0 mils to about 12.0 thick, and the tie layer is from about 0.2 mils to about 2.0 mils thick.

Claim 46 (currently amended): A multiple-layer structure for fabricating medical products comprising:

a first layer of a polyamide having a thickness from about 0.5 mils to about mils 4.0 mils;
a second layer attached to the first layer, the second layer consisting essentially of an ethylene and α -olefin copolymer having a density of less than about ~~0.900~~0.905 g/cc and a DSC melting point of 100°C or lower, the second layer having a thickness from about 4.0 mils to about 12.0 mils ; and

wherein the structure has a modulus of elasticity of less than about 60,000 psi.

Claim 47 (original): The structure of claim 46, wherein the α -olefin has from 4 to 8 carbons.

Claim 48 (original): The structure of claim 47, wherein the ethylene and α -olefin copolymer is produced using a single-site catalyst.

Claim 49 (original): The structure of claim 46, further comprising a tie layer positioned between the first layer and the second layer.

Claim 50 (original): The structure of claim 49, wherein the tie layer is a polyolefin polymer or copolymer blended with a polyethylene copolymer grafted with a carboxylic acid anhydride or a carboxylic acid.

Claim 51 (original): The structure of claim 50, wherein the carboxylic acid anhydride is an unsaturated fused ring carboxylic acid anhydride.

Claim 52 (original): The structure of claim 51, wherein the carboxylic acid anhydride is a maleic anhydride.

Claim 53 (original): The structure of claim 49, wherein the first layer is from about 0.5 mils to about 2.0 mils thick, the second layer is from about 6.0 mils to about 10.0 mils thick, and the tie layer is from about 0.2 mils to about 2.0 mils thick.

Claim 54 (original): The structure of claim 49, wherein the structure is fabricated by a coextrusion process.

Claim 55 (original): The structure of claim 54, wherein the coextrusion process is a cast coextrusion process.

Claim 56 (original): The structure of claim 55, wherein the cast coextrusion process is carried out essentially free of slip agents.

Claim 57 (original): The structure of claim 46, wherein the polyamide results from a ring-opening reaction of lactams having from 4-12 carbons.

Claim 58 (original): The structure of claim 46, wherein the polyamide is selected from the group consisting of nylon 6, nylon 10 and nylon 12.

Claim 59 (original): The structure of claim 46, wherein the polyamide is selected from the group consisting of aliphatic polyamides resulting from the condensation reaction of diamines having a carbon number within a range of 2-13, aliphatic polyamides resulting from a

condensation reaction of di-acids having a carbon number within a range of 2-13, polyamides resulting from the condensation reaction of dimer fatty acids, and amide containing copolymers.

Claim 60 (original): The structure of claim 46, wherein the polyamide is selected from the group consisting of nylon 66, nylon 6,10 and dimer fatty acid polyamides.